



## Student Assessment: Genes in Marine Habitats

Fill in the blanks below with one or more words that best complete the sentence.

- 1) Sexual reproduction produces offspring that inherit \_\_\_\_\_ their genes from each parent.
- 2) One or more \_\_\_\_\_ on the chromosome can determine an inherited trait.
- 3) A fish with very good camouflage would be \_\_\_\_\_ to escape predators than another fish that is easier to see.
- 4) The offspring or young of a marine species shows physical features that are similar to \_\_\_\_\_.
- 5) Many genes make up the important molecule \_\_\_\_\_ located in the chromosomes of each cell.
- 6) When a \_\_\_\_\_ species is found in large numbers it is evidence of a healthy marine ecosystem.
- 7) Separating two populations of a single species from one another could result in different physical adaptations over time if the two populations are no longer able to \_\_\_\_\_.

Answer the questions below by writing your answers on the lines provided for you.

- 8) Some species of rockfish are not able to reproduce until they are 10 to 12 years old. How could this become a problem for a species? \_\_\_\_\_  
\_\_\_\_\_.
- 9) According to Darwin's theory, if a certain species has a good variety of traits in its gene pool this could in time result in biological evolution or change in that species. Explain his reasoning:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_.
- 10) Two species of rockfish, the tiny shortbelly rockfish and the large-growing cowcod, are thought to share a common ancestor species that lived long ago. What evidence do we have to support this? \_\_\_\_\_  
\_\_\_\_\_.